

In the Claims

- 1.(Currently Amended) A method for processing an information sequence with an iterative decoder, comprising:
dividing the information sequence into a current window and at least one additional window;
selecting the current window of the information sequence; and
computing at least one metric value for a current recursion of the current window based on metric values from another window in a previous iteration, wherein the another window is from the at least one additional window [of the information sequence, wherein the additional window is from a past iteration].
- 2.(Currently Amended) The method of claim 1, further comprising:
initializing a training recursion for the current window based on the metric values [from the additional window].
- 3.(Currently Amended) The method of claim 1, further comprising:
processing the metric values [from the additional window of the information sequence].
- 4.(Original) The method of claim 3, further comprising:
storing the processed metric values.
- 5.(Currently Amended) The method of claim 2, further comprising:
determining a value step number of the metric values [from the additional window]; and
determining an initialization step number for initializing the training recursion for the current window.
- 6.(Currently Amended) The method of claim 3, wherein the processing step comprises:

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assigning the metric values [from [the additional window of the information sequence].

7.(Currently Amended) The method of claim 2, further comprising:
determining an index of the metric values [of the additional window]; and
initializing the training recursion of the current window based on the index
of the metric values [of the additional window].

8.(Currently Amended) A method for processing an information
sequence, comprising
selecting a current window of the information sequence during a current
iteration;
selecting an additional window of the information sequence, wherein the
additional window is for a future iteration;
recursively computing a metric value for the current window from another
window in a previous iteration; and
processing the metric value for the current window for use in the additional
window.

9.(Original) The method of claim 8, further comprising:
storing the processed metric value.

10. (Cancelled).

11. (Cancelled).

12. (Cancelled).

13. (Cancelled).

14. (Cancelled).

15. (Cancelled).

16. (Cancelled).

17. (Cancelled).

18. (Cancelled).

19.(Currently Amended) An iterative decoding system, comprising:
means for dividing an information sequence into a current window and at least one additional window;
means for selecting the current window of the information sequence; and
means for computing at least one metric value for a current recursion of the current window based on metric values from another window in a previous iteration wherein the another window is from the at least one additional window [the additional window of the information sequence, wherein the additional window is from a past iteration].

20.(Currently Amended) The system of claim 19, further comprising:
means for initializing a training recursion for the current window based on the at least one metric value[s].

21.(Currently Amended) The system of claim 19, further comprising:
means for processing the at least one metric value[s] from the additional window of the information sequence].

22.(Original) The system of claim 21, further comprising:
means for storing the processed metric values.

23.(Currently Amended) The system of claim 20, further comprising:
means for determining a value step number of the at least one metric value[s] from the additional window]; and
means for determining an initialization step number for initializing the training recursion for the current window.

24.(Currently Amended) The system of claim 21, further comprising:
means for assigning the at least one metric value[s] from the additional window of the information sequence].

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25.(Currently Amended) The system of claim 20, further comprising:
means for determining an index of the at least one metric value[s] of the additional window]; and
means for initializing the training recursion of the current window based on the index of the metric values [of the additional window].

26.(Currently Amended) A turbo decoding system for processing an information sequence, comprising:
means for selecting a current window of the information sequence during a current iteration;
means for selecting [an additional] another window of the information sequence, wherein the [additional] another window is for a future iteration;
means for recursively computing a metric value for the current window;
and
means for processing the metric value for the current window for use in the [additional] another window.

27.(Currently Amended) The system of claim 26, further comprising:
means for storing the processed metric value.

28. (Currently Amended) A turbo decoding system comprising:
at least one interleaver;
at least one de-interleaver;
at least one decoder, wherein the at least one decoder comprises:
means for dividing an information sequence into a current window and at least one additional window;
means for selecting the current window of the information sequence; and
means for computing at least one metric value for a current recursion of the current window based on metric values from another window in a

previous iteration, wherein the another window is from the at least one additional window [the additional window of the information sequence, wherein the additional window is from a past iteration].

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